

# Smart Gym Management System

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**ABSTRACT--** Any business that does not have a website is missing out on one of the most powerful marketing tools available to them. The main reason that it is important for businesses to have a website is how people are likely to find you. For this reason of dependency on online, we develop a website for a gymnasium in which customer can get all information about the gymnasium and he/she can access or enroll at the gym via online. Usually, the client uses MS Excel or paper, and maintains their records, however it is not possible them to share the data from multiple system in multi user environment, there is lot of duplicate work, and chance of mistake. The Smart Gym Management System eliminates most of the limitations of the existing system. Increasing efficiency and effectiveness, automation, accuracy, user-friendly interface, information availability, cost reduction makes our system smarter than the existing system.

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## I. INTRODUCTION

We all know health is wealth. Being healthy is a first thing we need to keep in mind. Because most of time our attitude depends on how we feel. Being healthy and fit gives us energy to do anything. Physical fitness is very necessary for a healthy and tension free life. Physical fitness includes diet, exercise and sleep. These three basic things have their own importance in each individual's life and everyone should be sensible with regard to these for a healthy life.

This system will help members as well as administration.

Major benefits of this system are -

- i. Increasing transparency
- ii. Easy payment options online.
- iii. Standardization of the system
- iv. Online registration
- v. Maintaining information of member in Database.

## II. OVERVIEW OF PROJECT

Our proposed "Smart Gym Management System" is for those who run a gym business. Before doing anything we did a decent research on major difficulties for gym owners. We examined carefully about how to make a huge registering system without failure as well as different functions for different kind of user

depending

on their privilege. The Gym Management requires a system that will handle all the necessary and minute details easily and proper database security accordingly to the user. They requires software, which will store data about members, employees, products, payroll, receipts of members & all transactions that occur in Gym.

### III. AIMS AND OBJECTIVES

The objectives of this study are summarized below:

The main objective of the project is to design and develop a user friendly efficient computerized Gym Management System.

- An accurate system without any data redundancy.
- Secured data storage for Authority end.
- Secure the user ends data by providing each user's own personal credentials.
- A flexible system which can maneuver the customer-staff relationship in an effective manner.
- To provide better graphical user interface.
- Computerization can be helpful as means of saving time & money.

### IV. MODULES:

- Administrative module:

This user is an admin type who has full rights on the system. There can be more than one admin. To secure the system from anonymous person login system is designed. So, the admin will have their own username and the password. This entity will also record the login time and logout time of the user from the system. Maintaining the record of the time will provide a secure surveillance over the admin events also.

### VI. COMPARISON:

Parameter	Existing System	Propose System
Work	Manually	Computerised
Time	Time consuming	Less time required
Cost	Most cost required	Less time required
Task	Difficult	Easy

### LITERATURE SURVEY:

#### Gym Management System

Authors : Kasliwal Mahima, Raundal Pooja, Wagh Niyati, G.M. Lodha

#### EXISTING SYSTEM

- Member:

This is a normal level of user who will have rights to access very few number of functionality of website. It will store all the information about the member from personal to the gym related information. It will also store the user status through which admin can directly find out if the member is allowed like if they have paid their fee. Admin can also update member's gym information and the member can view by login in with their credentials.

- Payment:

The payment entity is more important and sensitive than any other entity as it involves the fund management. It will store all the information about the fee payment made by the members. This will give transparency between administration and the member that any time member can check their account if it is correctly updated.

- Trainer:

This entity stores the information about the trainer which is hired by the gym administration to train their member work out correctly. Working out correctly is same as important as actually working out. This trainer could be hired on basis of hourly charges or special training for the member or they could be on an agreement like a permanent employee of the gym.

### V. PROBLEM DEFINITION

Gym management system is a web-based project which is used by gym manager and customers. They use this to save records of customers like related to their fitness, starting period, fees, their personal details because of this work of gym manager gets easy and time saving.

Every work/task/records in the existing system is done on the paper manually which takes much more time. Updating the data and much more records (which is not automated) is very time consuming process. When everything is done manually there are always chances of human errors and the detection of the process is long process. Present system is not online, so there are many drawbacks for the administration and members.

### PROPOSED SYSTEM

In this gym management system total computerization of the activities of the gym to Maintaining records of everything in the automated system. This is fully developed system which will be the supporting for the management of the gym so neglect error is not an option because after it makes itself big form of that. It also needs that type of software which will store information about student, employees, products etc.

### Virtual Gym Management System

**Authors : Manjiri R. Girnale, Komal D. Untwal, Sonali S. Jathar, Prince Anand**

### PROPOSED SYSTEM

The proposed system "Virtual Gym Management System" is for those who run a gym business. A decent research on major difficulties for gym owners was done. By examining carefully about how to make a huge registering system without failure as well as different functions for different kind of user depending on their privilege. The Gym Management requires a system that will handle all the necessary and minute details easily and proper database security accordingly to the user. System and System resources will work in almost all the configurations.

#### Online Payment Gateway:

To make payment easy for customers online payment gateway will be integrated in this system. All transactions details will be securely recorded in database. Only authenticate user will have to access to this sensitive information. Payment Gateway is one of the most crucial factors of any business, as it enable safe, secure and speedy online payments. There are many such service providers to select from like PayZippy, Flipkart's very own Payment Gateway Service for Indian merchants.

#### Interaction of Customers with Trainers /Consultancy:

Customers are intended to specify their body requirements along with their present health condition also past medical history if any. By analyzing customer provided data ,Trainers suggest them proper set of exercise and routine, by following which customer can fulfill their desires. Combining exercise with a healthy diet is a more effective way to maintain healthy lifestyle. Consultancy plays a significant role in boosting one's health. User provided data is also analyzed by consultant in order to predict proper diet and supplements for the needy workout and diet plans will be provided to user in the form of a suggestion reports. Properly Following the suggested reports is mere responsibility of customers.

#### Activity Tracker:

Activity Tracker is one of the key feature of proposed system which will keep the track of users activity. It'll benefits to both users as well as trainers and consultancy for regularly tracking and thus updating the logs if & when required. Users are intended to regularly generate Feedback reports about the system services.

#### Automated Report Generation:

There will be a point when this Intelligent system will not require the trainers and consultancy to guide the users when requested. The system only, by analyzing the previous data & the requirements , will automatically generate the suggestion reports for users. The technique used here is NLP (Natural Language processing). NLP is a field of artificial intelligence that deals with the interaction between computers and Natural languages.

#### CONCLUSION:

The gym management system is properly performed to satisfy all the important requirements that we want in

gym. The older system was tackled with so many problems/issues. The present project has been

*developed to make work easy and efficient. This system is automated system i.e. only use of machine work.*

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